Index to Volume V

A

Absorption bands—diagram 118
Absorption of various light rays 198
Analyzer—tube or cap 56
Anemia—blood cells 114
Application of a new transparent positive film to clinical photography—R. J. Lebowich and M. C. Dinberg, Gloversville, New York 34
Artificial light suitable for Kodachrome A 70–71
Artificial malaria, found to benefit brain patient—Dr. Bruce Mayne 137
Association News—Arthur W. Fuchs 41, 94, 152, 200
Astigmatism 105

B

Back lighting in intricate glassware 188
Baird, Thelma T. Polarized light in photomicrography, its principles and applications 43
Bell and Howell—Sound-on-film projector by 38–39
Binding the Journals 155
Binocular magnifying loupe gives three-dimensional vision 199
Biological photographic illustration—J. S. Nicholas, New Haven, Connecticut 3
Biology—Sound film teaching 25
Biology teaching—use of animation 26
Blood picture—stains used 115
Botanical album. The work of Julian A. Carlile 96
Bruner, J. M., Rosebrook, L. E., and Cushman, G. W., Des Moines, Iowa. Photography of the cervix uteri 13

C

Calcite—quartz in polarization 47
Carlile, Julian A. Botanical album, the work of 96
Catalogue of films 39
Cervix uteri—camera and film developer and filter 17, 19
Cervix uteri—in color by Dufay 19
Cervix uteri—method of focusing 19
Chro-luminum coating of mirror 167
Chromatic aberration 106
Ciliated epithelium. Motion pictures of tissue cultures 84
Ciné-Kodak Special 64

Ciné-Kodak Special and B. & L. observation ocular in micro-cinématography 38
Cleanliness—lenses and dark room and its equipment 192
Cohen, Milton. Focusing microscopic and parallax view finder 78
Color fringe—the cause 106
Color photomicrography. Crisp negative needed. Two colors usually suffice ... 31
Commercial ortho preferred to record yellow-green 115
Convention—Boston, Massachusetts, 1936 Program 1
Correct use of safe lights 148
Creer, Ralph P. Journal B. P. A., photography of the cervix uteri 13
Creer, Ralph P. Print quality 189
Cylindrical speculum—cervix uteri 14

D

Degenerating nerves—study with polarized light 52
Demonstration ocular in capillary photography 134
Depth of field in photomicrography—Arthur C. Hardy 119
Depth of focus—small negative of gross subject if enlarged will increase 123
Depth of focus—small negative of micro slide if enlarged fails to increase 123
Direct duplicating films 125
Effect of various developers 128
Direct photomicrographic half-tone negatives for color reproductions—Osborne O. Heard 57
Dufay film formula and, etc 84
Dunton, S. C. Trailing the sea-horse 155

E

Eastman background—film and developer 17
Eight mm. films by Dr. L. W. R. Jackson, Philadelphia 207
Embryos—apparatus 5–12
Embryos, changing background 11
Embryos—illumination and transillumination 11
Exposure—essential in color photography. Use electric photometer 77
Exposure guide with color film and artificial light 72

F

Film emulsion for making direct duplicates in a single step—Frederick Schoeck ... 123
Films reported by members 207
Filter for infra-red plates 6
Filters—importance of in photomicrographs of leucocytes 194
Filters—sharpcutting 106
Focusing microscopic and parallax view finder—Milton Cohen 78
Free films 28
Freedom from glare 107
Fuchs, Arthur W. Association News 41, 94, 152, 200

ETS

G

Groat-Jenner stain 115

H

Harding, F. R. Photography of colored objects in monochrome 197
Harding, F. R. Lighting tumors, cysts 191
Harding, F. R. Records and filing at Children's Hospital, Boston, Massachusetts. 195
Harding, R. B. Rapid method of determining enlarging and reducing proportions 149
Hardy, Arthur C. Depth of field in photomicrography 119
Hayden, H. S. Practical technique of photography for use in the surgical operating theatre 159
Heard, Osborne O. Direct photomicrographic half-tone negatives for color reproductions 57
Hewitt, Richard M. Rochester, Minnesota. Tabular and textual lantern slides 167
Historic notes on development of Association 89

I

Illumination with immersion systems. Intensity. Evenness, resolution, etc. 104
Improved illuminating system for photomicrography with immersion lenses—Jean Kieffer 103
Infra-red plate in biology— 6
Infra-red plate in photomicrography—Leo C. Massopust, Milwaukee, Wisconsin .. 20
Injected specimens—with 1 R plates and both transmitted and reflected light 23
Invisible detail recorded by use of filters 115

J

Journal—its beginning 89
Julin, Leonard A. Print criticism 36

K

Dr. Kersley of Bath, England. Study of rheumatism 134
Kieffer, Jean. Improved illuminating system for photomicrography with immersion lenses 103
Kieffer, Jean. Photomicrography of leucocytes 194
Kodachrome stills in biological photography—R. P. Loveland 74

L

Laboratory photographs on immobilized animals 5
Lantern slides—changing methods 184
Lantern slides—cleared with Farmer's reducer 36
Lantern slides—long development recommended by Julin 36

Lebowich, R. J., and Dinberg, M. C., Gloversville, New York. Application of a new transparent positive film to clinical photography 34
Leishman stain for blood 114
Lens hood—very important 191
Light—its theory 44
Lighting tumors, cysts—F. R. Harding 191
Lindbergh perfusion pump 185
Loveland, R. P. Kodachrome stills in biological photography 74

M

Magazine Ciné-Kodak 63-64
Malarial parasite entering human blood cell 138
Massopust, Leo C., Milwaukee, Wisconsin. Infra-red plate in photomicrography. 20
Mayne, Dr. Bruce. Artificial malaria, found to benefit brain patient 137
McComb, Stanley J. Rochester, Minnesota. Three-color transparencies: A method of reproducing microscopic stained sections 31
Metallographic plate in embryo photography 6
Methods of illumination increasingly important in biological research 54
Microcinématography apparatus 38
Microradiography references 145
Mirror for low intensity light for focusing 113
Mirror photography 161
Mosquitoes used to induce malaria in brain therapy 137
Motion pictures in the general biology course at Yale—Oscar W. Richards, New Haven, Connecticut 24
Motion picture laboratory practice and characteristics of Eastman M. P. Film .. 147

N

New Members 42, 100, 156
New York Aquarium 155
Nicholas, J. S. Biological photographic illustration 5
Nicol prism 47

O

Optically isotropic substances 48
Overexposure of positives in wash-off relief 33

P

Panchromatic-orthopanchromatic and hyperpanchromatic emulsions—suitable filters 198
Photoflood lights essential in using Kodachrome 75
Photographic aid to plastic surgery—F. R. Harding 146
Photographs for records and illustration 5
Photography of colored objects in monochrome—F. R. Harding 197
Photography of glass apparatus—Louis Schmidt and Joseph B. Haulenbeek 185

Photography of the capillaries in the cuticle of the finger nail—Olaf Bloch and F. B. Meech 134
Photography of the cervix uteri—J. M. Bruner, L. E. Rosebrook and G. W. Cushman, Des Moines, Iowa 13
Photography of the cervix uteri—Ralph P. Creer 13
Photomicrography of blood—Stella M. Zimmer 113
Photomicrography of leucocytes—Jean Kieffer, Norwich, Connecticut 194
Photomicrography of pale specimen of blood—which filter? 195
Photomicrography with Kodachrome 75
Planning the copy—tabular lantern slides 180
Plastic surgery—photographic aid 146
Polarized light—Tuttle and McFarlane 57
Polarized light in photomicrography, its principles and applications—Thelma T. Biard 43
Polarized light, rotating stage important 55
Pola-Screens for polarization 57
Poloroid demonstration 152
Portable time lapse apparatus—E. S. Rinaldy 80
Practical technique of photography for use in the surgical operating theatre—H. S. Hayden 159
Preparation of prints—spotting 83
President's address—Good of the Association 87
Print criticism—Leonard A. Julin 36
Print criticism—chest 86
Print criticism—skin tests—S. J. McComb 145
Print quality—Ralph P. Creer 189
Print quality—definitions 190
Proper lighting of pathological specimens 191

R

Radiography of small biological specimens—H. F. Sherwood 138
Radiography of small subjects—filter and type of tube 139
Rapid method of determining enlarging and reducing proportions—R. B. Harding 149
Records and filing at Children's Hospital, Boston, Massachusetts—F. R. Harding 195
Records and filing at Harvard Dental School 197
Reddish or brownish specimens in photomicrography in infra-red 23
References—capillary photography 136
Registration of films for teaching 205
Remarks on polarization—W. H. Zieler 55
Report of Committee on Motion Pictures 205
Rheumatism, study of—Dr. Kersley of Bath, England 134
Richards, Oscar W., New Haven, Connecticut. Motion pictures in the general biology course at Yale 24
Rinaldy, E. S. Portable time lapse apparatus 80

S

Safety translite film—Eastman third-dimensional effect 35
Schmidt, Louis and Haulenbeek, Joseph B. Photography of glass apparatus ... 185
Schoeck, Frederick. A film emulsion for making direct duplicates in a single step 123
Services available to members 89
Sherwood, H. F. Radiography of small biological specimens 138
Size of lettering on slide must be large enough for size of screen and depth of room . 174
Some biological films 3
Sound-on-film projector by Bell and Howell 38–39
Sources of films and equipment 205
Spotting 83
Stereoscopy of small subjects—radiographs 141
Subjects of papers wanted by editor 154
Surgical motion pictures with 16 mm. type A Kodachrome—Harris B. Tuttle and Harold J. Henn 63
Surgical operation, its photography apparatus 161, 162
Sustaining members 90

T

Tabular and textual lantern slides—Richard M. Hewitt, Rochester, Minnesota ... 167
Temperature of solutions 192
Test object—faulty rendering 105
Theory of light 43–44
Three-color transparencies: A method of reproducing microscopic stained sections—Stanley J. McComb, Rochester, Minnesota 31
Three-dimensional magnification by binocular loupe 199
Time lapse apparatus—portable 80
Tourmaline—exhibits—polarizing properties 45
Trailing the sea-horse—S. C. Dunton 155
Transillumination of embryos 9
Tumors, cysts, proper lighting—F. R. Harding 191
Tuttle, Harris B., and Henn, Harold J. Surgical motion pictures with 16 mm. type A Kodachrome 63
Tuttle and McFarlane. Polarized light 57
Types of individuals in the membership, percentages 91
Typewriter type cleaner—Star type cleaner 169

V

Visual light for focusing by mirror 113

W

Wash-off relief—overexposure of positives 33
Wedge of G. filters on commercial ortho emulsion 114, 115

Z

Zieler, W. H. Remarks on polarization 55
Zimmer, Stella M. Photomicrography of blood 113